

Chapter 10

Leadership for 21st century trialists

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Aim

The objective of this chapter to provide students with a theoretical understanding of the interdisciplinary skills in leadership, team management and networking that allow researchers to carry out successful research. Problem-based exercises shall allow students to effectively build those skills and self-reflect and assess in those areas.

Summary

Successful research in the 21st century hinges on two factors: its essential scientific quality and researchers' soft skill set that allows them to fund, lead and publicize the project. This new interdisciplinary chapter should provide students with a global understanding of potential European resources for funding a trial, regulations and the application process, team management, communication and leadership skills, an overview of European scientific networks and a preparation for publicizing activities, such as public speaking exercises, presentations, and the role and means of popularization activities, both on and off-line.

Methods

Each subchapter will be divided into *two main parts*: a *content-based part* that provides factual and theoretical knowledge entailing a descriptive e-learning material enriched with videos, links to related websites, ending with a normative quiz to test students' acquired knowledge, and understanding, and a discussion board. Each theoretical point will be enriched with real-life examples. The *second half* of each subchapter will adopt a *contextualized interactive problem-based learning* approach, in that students will have to submit solutions an imaginary case related to the first subchapter, such as a grant proposal as a team working project, suggest solutions to issues linked to team dynamics and team management and plan a 'scientific publicity campaign' on and off-line both for the scientific community and the general public.

Learning Outcomes

Students will be able to

1. Set up a clinical trials unit (CTU)
2. Manage and collaborate in a European team
3. Find European (public and private) Sources for funding a trial
4. Submit a grant proposal
5. Participate in European scientific networks, understand their roles and their working mechanisms
6. Prepare and adapt the presentation of research projects to the target public and to the communication channel

Complementarity to CONSCIOUS I Materials

The issue has not been covered by the CONSCIOUS I project.

Content

- 1 Introduction
- 2 The key notions in leadership
 - 2.1 Leadership styles and their pros and cons (from the autocratic to servant leadership)
 - 2.1.1 What is leadership?
 - 2.1.2 Leadership styles and their pros and cons
 - 2.1.3 The qualities and skills of a good leader
 - 2.1.4 Diversity, equity, and inclusivity
- 3 Project management techniques
- 4 Team management and leadership for PIs
 - 4.1 Intellectual leadership
 - 4.2 Leading a research project
 - 4.2.1 Effective research project leadership
 - 4.2.2 Applying for research funding
 - 4.3 Building and managing a research team
 - 4.3.1 Setting expectations for research teams
 - 4.3.2 Monitoring research team progress
 - 4.4 Developing yourself as a PI